

Missouri Department of Natural Resources



PUBLIC NOTICE

DRAFT MISSOURI STATE OPERATING PERMIT

DATE: July 30, 2004

In accordance with the state Clean Water Law, Chapter 644, RSMo, Clean Water Commission regulation 10 CSR 20-6.010, and the federal Clean Water Act, the applicants listed herein have applied for authorization to either discharge to waters of the state or to operate a no-discharge wastewater treatment facility. The proposed permits for these operations are consistent with applicable water quality standards, effluent standards and/or treatment requirements or suitable timetables to meet these requirements (see 10 CSR 20-7.015 and 7.031). All permits will be issued for a period of five years, unless noted otherwise in the Public Notice for that discharge.

On the basis of preliminary staff review and the application of applicable standards and regulations, the Missouri Department of Natural Resources (MDNR), as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions. The proposed determinations are tentative pending public comment.

Persons wishing to comment on the proposed effluent limitations and/or determinations are invited to submit them in writing to the Department of Natural Resources, Northeast Regional Office, 1709 Prospect Drive, Macon, MO 63552, ATTN: G. Irene Crawford, Regional Director. Please include the permit number in all comment letters.

Comments should be confined to the issues relating to the proposed action and permit(s) and the effect on water quality. The MDNR may not consider as relevant comments or objections to a permit based on issues outside the authority of the Clean Water Commission, (see Curdt v. Mo. Clean Water Commission, 586 S.W.2d 58 Mo. App. 1979).

All comments must be postmarked by August 30, 2004 or received in our office by 5:00 p.m. on September 2, 2004. The requirement of a signed document makes it impossible to accept email comments for consideration at this time. Comments will be considered in the formulation of all final determinations regarding the applications. If response to this notice indicates significant public interest, a public meeting or hearing may be held after due notice for the purpose of receiving public comment on the proposed permit or determination. Public hearings and/or issuance of the permit will be conducted or processed according to 10 CSR 20-6.020.

Copies of all draft permits and other information including copies of applicable regulations are available for inspection and copying at DNR's website, <http://www.dnr.state.mo.us/wpscd/wpcp/wpcpermits.htm>, or at the Department of Natural Resources, Northeast Regional Office, 1709 Prospect Drive, Macon, Missouri 63552.

Public Notice Date: July 30, 2004

Permit Number: MO-0111686

Northeast Regional Office

| FACILITY NAME AND ADDRESS | NAME AND ADDRESS OF OWNER |
|--|---|
| Continental Cement Company, LLC 10107 Highway 79 Hannibal, MO 63401 | Continental Cement Company, LLC 10107 Highway 79 Hannibal, MO 63401 |
| RECEIVING STREAM & LEGAL DESCRIPTION | TYPE OF DISCHARGE |
| Unnamed Tributary to Mississippi River (Mississippi River) Sec. 2, T56N, R4W, Ralls County | Industrial, modification to upgrade facility, and renewal. |

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No. MO-0111686

Owner: Continental Cement Company, LLC
Address: 10107 Highway 79, Hannibal, MO 63401

Continuing Authority: Same as above
Address: Same as above

Facility Name: Continental Cement Company, LLC
Address: 10107 Highway 79, Hannibal, MO 63401

Legal Description: See page 2

Receiving Stream: Unnamed Tributary to Mississippi River (U)
First Classified Stream and ID: Mississippi River (P) (00001) 303(d) list
USGS Basin & Sub-watershed No.: (0711004-030003)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

See page 2 and 3

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

Effective Date

Stephen M. Mahfood, Director, Department of Natural Resources
Executive Secretary, Clean Water Commission

Expiration Date
MO 780-0041 (10-93)

G. Irene Crawford, Director, Northeast Regional Office

FACILITY DESCRIPTION (continued)

Outfall #001 - Domestic Waste - SIC #4952

Extended aeration/effluent to a detention basin then flows to lift station at outfall #003/lift station pumps to detention pond at outfall #007/sludge holding tank/sludge disposal is by contract hauler or composted on site.

Design population equivalent is 150.
Design flow is 15,000 gallons per day.
Actual flow is 9,000 gallons per day.
Design sludge production is 2.7 dry tons/year.

Legal Description: SE $\frac{1}{4}$, NW $\frac{1}{4}$, Sec. 2, T56N, R4W, Ralls County

Outfall #002 - Cement Kiln Dust Management Area (Monofill) & the Syn-Gyp storage pile - SIC #3241

Storm water runoff/sedimentation pond/sheet flow to outfall.
Design flow rate over 1 MGD (10-year, 24-hour rainfall event = 5.0 inches)

Legal Description: NE $\frac{1}{4}$, NW $\frac{1}{4}$, Sec. 2, T56N, R4W, Ralls County

Outfall #003 - Northern Industrial Area, Main Processing plant with kiln and fuel operational areas - SIC #3241

Storm water runoff from a series of sedimentation ponds, including, effluent from outfall #001/lift station/lift station pumps to detention pond at outfall #007.

Lift station capacity reached/discharged into Mississippi River.
Design flow rate over 1 MGD (10-year, 24-hour rainfall event = 5.0 inches)

Legal Description: NW $\frac{1}{4}$, NE $\frac{1}{4}$, Sec. 2, T56N, R4W, Ralls County

Outfall #004 - Southern Industrial Area and Coal Belt Loading Area - SIC #3241

Storm water run-off/lift station/lift station pumps to detention pond at outfall #007.

Lift Station capacity reached/discharged into Mississippi River
Design flow rate over 1 MGD (10-year, 24-hour rainfall event = 5.0 inches)

Legal Description: SW $\frac{1}{4}$, NE $\frac{1}{4}$, Sec. 2, T56N, R4W, Ralls County

Outfall #005 - Pre-law Quarry site with artificial soil program for reclamation.

Storm water runoff/detention pond/spray irrigation onto artificial soil program area as needed for consumptive irrigation and treated effluent discharge to sub-surface culvert then to surface wet weather ditch during remainder of the time.

Legal Description: NE $\frac{1}{4}$, SW $\frac{1}{4}$, Sec. 3, T56N, R4W, Ralls County

Outfall #006 - A1 Quarry operations - SIC#1422

Storm water run-off/sedimentation pond.

Legal Description: SW $\frac{1}{4}$, NE $\frac{1}{4}$, Sec. 14, T56N, R4W, Ralls County

FACILITY DESCRIPTION (continued)

Outfall #007 - Sedimentation pond - SIC #3241

Currently for the Wet Cement Production Process - Effluent from lift stations at outfalls #003 and #004, wet cement plant production facility process wastewater and wet raw mill facility process wastewater, storm water from main industrial area/grit chambers/sedimentation pond/recycle to wet cement plant/discharged into Mississippi River.

Effective upon Elimination of the Wet Cement Production and changed to a Dry Cement Production Process - Effluent from lift stations at outfalls #003 and #004, storm water from main industrial area/grit chambers/sedimentation pond/recycle to non-leachable air pollution control equipment/discharged into Mississippi River.

Design flow: 3,760,061 gallons per day

Legal Description: SW $\frac{1}{4}$, NE $\frac{1}{4}$, Sec. 2, T56N, R4W, Ralls County

| | | | | | PAGE NUMBER 4 of 11 | |
|--|----------------------|----------------------------|-------------------|--------------------|--------------------------|--------------------------|
| A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS | | | | | PERMIT NUMBER MO-0111686 | |
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below: | | | | | | |
| OUTFALL NUMBER AND EFFLUENT PARAMETER(S) | UNITS | FINAL EFFLUENT LIMITATIONS | | | MONITORING REQUIREMENTS | |
| | | DAILY MAXIMUM | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY | SAMPLE TYPE |
| <u>Outfall #001</u> - Domestic waste | | | | | | |
| Flow | MGD | * | | * | once/quarter** | 24 hr. estimate |
| Biochemical Oxygen Demands**** | mg/L | | 45 | 30 | once/quarter** | modified comp. sample |
| Total Suspended Solids**** | mg/L | | 45 | 30 | once/quarter** | modified comp. sample |
| pH - Units | SU | ***** | | ***** | once/quarter** | grab |
| <u>Outfall #002</u> - Stormwater from Monofill and storage pile | | | | | | |
| <u>Outfall #003</u> - Northern Industrial Area, Main Processing plant with kiln and fuel operational areas (Note 1) | | | | | | |
| <u>Outfall #004</u> - Southern Industrial Area and Coal Belt Loading Area (Note 1) | | | | | | |
| Flow | MGD | * | | * | once/quarter** | 24 hr. estimate |
| Total Suspended Solids | mg/L | 50 | | 50 | once/quarter** | grab |
| Chemical Oxygen Demand | mg/L | 120 | | 90 | once/quarter** | grab |
| Oil & Grease | mg/L | 15 | | 10 | once/quarter** | grab |
| Sulfate | mg/L | * | | * | once/quarter** | grab |
| Conductivity | micromhos/cm @ 25 | * | | * | once/quarter** | grab |
| pH - Units | SU | ***** | | ***** | once/quarter** | grab |
| MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE _____. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS. | | | | | | |
| B. STANDARD CONDITIONS | | | | | | |
| IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Parts I & III</u> STANDARD CONDITIONS DATED <u>October 1, 1980 and August 15, 1994</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN. | | | | | | |

| A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS | | | | | PAGE NUMBER 5 of 11 | |
|--|-------------------|----------------------------|-------------------|--------------------|--------------------------|--------------------|
| | | | | | PERMIT NUMBER MO-0111686 | |
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| OUTFALL NUMBER AND EFFLUENT PARAMETER(S) | UNITS | FINAL EFFLUENT LIMITATIONS | | | MONITORING REQUIREMENTS | |
| | | DAILY MAXIMUM | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY | SAMPLE TYPE |
| <u>Outfall #005 - Old quarry with artificial soil project</u> | | | | | | |
| Flow | MGD | * | | * | once/day | 24 hr. estimate |
| Biochemical Oxygen Demands | mg/L | | 65 | 45 | once/week*** | grab |
| Chemical Oxygen Demand | mg/L | 120 | | 90 | once/week*** | grab |
| Total Suspended Solids | mg/L | 110 | | 70 | once/week*** | grab |
| Total Phosphorus | mg/L | * | | * | once/week*** | grab |
| Organic Nitrogen as N | mg/L | * | | * | once/week*** | grab |
| Ammonia Nitrogen as N | mg/L | * | | * | once/week*** | grab |
| Nitrate Nitrogen as N | mg/L | * | | * | once/week*** | grab |
| Sulfates | mg/L | * | | * | once/week*** | grab |
| Chlorides | mg/L | * | | * | once/week*** | grab |
| Oil & Grease | mg/L | 15 | | 10 | once/week*** | grab |
| Temperature | °C | * | | * | once/week*** | grab |
| Conductivity | micromhos/cm @ 25 | * | | * | once/week*** | grab |
| PH - Units | SU | ***** | | ***** | once/week*** | grab |
| MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE _____. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS. | | | | | | |
| B. STANDARD CONDITIONS | | | | | | |
| IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED Part I STANDARD CONDITIONS DATED <u>October 1, 1980</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN. | | | | | | |

| | | | | | PAGE NUMBER 6 of 11 | |
|--|---------|----------------------------|-------------------|--------------------|--------------------------|--------------------|
| A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS | | | | | PERMIT NUMBER MO-0111686 | |
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below: | | | | | | |
| OUTFALL NUMBER AND EFFLUENT PARAMETER(S) | UNITS | FINAL EFFLUENT LIMITATIONS | | | MONITORING REQUIREMENTS | |
| | | DAILY MAXIMUM | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY | SAMPLE TYPE |
| <u>Outfall #006</u> | | | | | | |
| <u>Non Storm Water</u> (Note 2) | | | | | | |
| Flow | MGD | * | | * | once/quarter*** | 24 hr. estimate |
| Total Suspended Solids | mg/L | 70 | | 70 | once/quarter*** | grab |
| Oil & Grease | mg/L | 15 | | 10 | once/quarter*** | grab |
| pH - Units | SU | ***** | | ***** | once/quarter*** | grab |
| <u>Storm Water Flows</u> (Note 3) | | | | | | |
| Flow | MGD | * | | * | once/year | 24 hr. estimate |
| Oil & Grease | mg/L | 15 | | 10 | once/year | grab |
| Settleable Solids | mL/L/hr | 1.5 | | 1.0 | once/year | grab |
| pH - Units | SU | ***** | | ***** | once/year | grab |
| MONITORING REPORTS SHALL BE SUBMITTED <u>ANNUALLY</u> ; THE FIRST REPORT IS DUE _____. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS. | | | | | | |
| B. STANDARD CONDITIONS | | | | | | |
| IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Part I</u> STANDARD CONDITIONS DATED <u>October 1, 1980</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN. | | | | | | |

| A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS | | | | | PAGE NUMBER 7 of 11 | |
|---|----------------------|----------------------------|-------------------|--------------------|--------------------------|--------------------|
| | | | | | PERMIT NUMBER MO-0111686 | |
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until July 31, 2006. Such discharges shall be controlled, limited and monitored by the permittee as specified below: | | | | | | |
| OUTFALL NUMBER AND EFFLUENT PARAMETER(S) | UNITS | FINAL EFFLUENT LIMITATIONS | | | MONITORING REQUIREMENTS | |
| | | DAILY MAXIMUM | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY | SAMPLE TYPE |
| <u>Outfall #007 - Sedimentation basin - Wet Process Cement Kiln</u> | | | | | | |
| <u>Non storm water Flow</u> | MGD | * | | * | once/day | 24 hr. estimate |
| Biochemical Oxygen Demands | mg/L | | 65 | 45 | once/week*** | grab |
| Chemical Oxygen Demand | mg/L | 120 | | 90 | once/week*** | grab |
| Total Suspended Solids | lbs/day | 32.4 | | 26.2 | once/week*** | grab |
| Sulfates | mg/L | * | | * | once/week*** | grab |
| Chlorides | mg/L | * | | * | once/week*** | grab |
| Oil & Grease | mg/L | 15 | | 10 | once/week*** | grab |
| Temperature***** | °F | 90 | | * | once/week*** | grab |
| Conductivity | micromhos/cm @ 25 | * | | * | once/week*** | grab |
| pH - Units | SU | ***** | | ***** | once/week*** | grab |
| MONITORING REPORTS SHALL BE SUBMITTED ANNUALLY; THE FIRST REPORT IS DUE _____. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS. | | | | | | |
| B. STANDARD CONDITIONS | | | | | | |
| IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Part I</u> STANDARD CONDITIONS DATED <u>October 1, 1980</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN. | | | | | | |

| | | | | | PAGE NUMBER 8 of 11 | |
|---|----------------------|----------------------------|-------------------|--------------------|--------------------------|--------------------|
| A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS | | | | | PERMIT NUMBER MO-0111686 | |
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until July 31, 2006. Such discharges shall be controlled, limited and monitored by the permittee as specified below: | | | | | | |
| OUTFALL NUMBER AND EFFLUENT PARAMETER(S) | UNITS | FINAL EFFLUENT LIMITATIONS | | | MONITORING REQUIREMENTS | |
| | | DAILY MAXIMUM | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY | SAMPLE TYPE |
| <u>Outfall #007</u> - Sedimentation basin (Note 4) - Wet Process Cement Kiln | | | | | | |
| Storm water Flow | MGD | * | | * | once/day | 24 hr. estimate |
| Biochemical Oxygen Demands | mg/L | | 65 | 45 | once/week*** | grab |
| Chemical Oxygen Demand | mg/L | 120 | | 90 | once/week*** | grab |
| Total Suspended Solids | mg/l | 50 | | 50 | once/week*** | grab |
| Sulfates | mg/L | * | | * | once/week*** | grab |
| Chlorides | mg/L | * | | * | once/week*** | grab |
| Oil & Grease | mg/L | 15 | | 10 | once/week*** | grab |
| Temperature***** | °F | 90 | | * | once/week*** | grab |
| Conductivity | micromhos/cm @ 25 | * | | * | once/week*** | grab |
| Precipitation | inches | * | | * | once/day | 24 hr. estimate |
| pH - Units | SU | ***** | | ***** | once/week*** | grab |
| MONITORING REPORTS SHALL BE SUBMITTED <u>ANNUALLY</u> ; THE FIRST REPORT IS DUE _____. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS. | | | | | | |
| B. STANDARD CONDITIONS | | | | | | |
| IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Part I</u> STANDARD CONDITIONS DATED <u>October 1, 1980</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN. | | | | | | |

| A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS | | | | | PAGE NUMBER 9 of 11 | |
|---|-------------------|----------------------------|----------------|-----------------|--------------------------|-----------------|
| | | | | | PERMIT NUMBER MO-0111686 | |
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective August 1, 2006 and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below: | | | | | | |
| OUTFALL NUMBER AND EFFLUENT PARAMETER(S) | UNITS | FINAL EFFLUENT LIMITATIONS | | | MONITORING REQUIREMENTS | |
| | | DAILY MAXIMUM | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY | SAMPLE TYPE |
| <u>Outfall #007</u> - Sedimentation basin (Note 1) - Dry Process Cement Kiln | | | | | | |
| Flow | MGD | * | | * | once/day | 24 hr. estimate |
| Biochemical Oxygen Demand ₅ | mg/L | 65 | | 45 | once/quarterly** | grab |
| Chemical Oxygen Demand | mg/L | 120 | | 90 | once/quarterly** | grab |
| Total Suspended Solids | mg/l | 50 | | 50 | once/quarterly** | grab |
| Sulfates | mg/L | * | | * | once/quarterly** | grab |
| Chlorides | mg/L | * | | * | once/quarterly** | grab |
| Oil & Grease | mg/L | 15 | | 10 | once/quarterly** | grab |
| Temperature***** | °F | 90 | | * | once/quarterly** | grab |
| Conductivity | micromhos/cm @ 25 | * | | * | once/quarterly** | grab |
| pH - Units | SU | ***** | | ***** | once/quarterly** | grab |
| MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE _____. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS. | | | | | | |
| B. STANDARD CONDITIONS | | | | | | |
| IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Part I</u> STANDARD CONDITIONS DATED <u>October 1, 1980</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN. | | | | | | |

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitoring requirement only.
- ** Sample once per quarter in the months of March, June, September, and December.
- *** Monitor only when discharge occurs. Report as no-discharge when a discharge does not occur during the report period.
- **** This facility is required to meet a removal efficiency of 85% or more.
- ***** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.
- ***** Not to exceed 3 deg. C rise above inlet temperature.

Note 1 - Any untreated flow from a greater than 10-year, 24-hour rainfall event (5.0 inches for the facility) is exempt from TSS and pH limits, but not the other limits (40 CFR 411.32 b).

Note 2 - Non-stormwater discharges shall include wastewater generated from process-related activities such as truck washing, and all dry-weather discharges. Wastewater from pumping of mine pits containing stormwater only shall be sampled annually in accordance with the requirements for "Stormwater Discharges".

Note 3 - Effluent limits for settleable solids are only effective for discharges resulting from rainfalls in amounts less than a 25-year, 24-hour event.

Note 4 - Effluent limits for pollutants are effective up to 24 hours after a storm event.

C. SPECIAL CONDITIONS

1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
 - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a)(2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

2. All outfalls must be clearly marked in the field.
3. Permittee will cease discharge by connection to areawide wastewater treatment system within 90 days of notice of its availability.
4. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - (1) One hundred micrograms per liter (100 µg/L);
 - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
 - (4) The level established in Part A of the permit by the Director.
 - (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.
5. Report as no-discharge when a discharge does not occur during the report period.
 6. Sludge and Biosolids Use For Domestic Wastewater Treatment Facilities
 - (a) Permittee shall comply with the pollutant limitations, monitoring, reporting, and other requirements in accordance with the attached permit Standard Conditions.
 - (b) If sludge is not removed by a contract hauler, permittee is authorized to land apply biosolids. Permit Standard Conditions, Part III shall apply to the land application of biosolids. Permittee shall notify the department at least 180 days prior to the planned removal of biosolids from the lagoon. The department may require submittal of a biosolids management plan for department review and approval as determined appropriate on a case-by-case basis.
 7. Outfall #005 - The storm water from the detention pond shall not be land applied to areas outside of the artificial soil program area or outside of the watershed for the sedimentation basin.

C. SPECIAL CONDITIONS (continued)

8. General Criteria. The following water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:

- (a) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
- (b) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
- (c) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
- (d) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
- (e) There shall be no significant human health hazard from incidental contact with the water;
- (f) There shall be no acute toxicity to livestock or wildlife watering;
- (g) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
- (h) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

9. Outfall #005 - Permittee shall conduct special annual sampling at the sedimentation pond impacted by the artificial soil reclamation project. Sampling shall be conducted in June with sample results submitted by August 28th. The sampling will be to collect and analyze for the following:

| | |
|------------------------------|------------------------------|
| Aluminum, total recoverable | Mercury, total recoverable |
| Antimony, total recoverable | Nickel, total recoverable |
| Arsenic, total recoverable | Selenium, total recoverable |
| Barium, total recoverable | Silver, total recoverable |
| Beryllium, total recoverable | Sulfate, as SO ₄ |
| Boron, total recoverable | Thallium, total recoverable |
| Cadmium, total recoverable | Zinc, total recoverable |
| Chromium, total recoverable | Hardness |
| Copper, total recoverable | Manganese, total recoverable |
| Iron, total recoverable | pH |
| Lead, total recoverable | |